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OIL AND GAS DEVELOPMENTS
IN
PENNSYLVANIA
IN
1953

By
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OIL AND GAS DEVELOPMENTS IN PENNSYLVANIA IN 1953

BY

CHAS. R. FETTKE¹

ABSTRACT

Exploratory drilling early in 1953 led to the opening of the largest Oriskany sand gas pool discovered to date in north-central Pennsylvania, the Benezette pool in southeastern Elk County. This pool is part of the Benezette-Driftwood field, the Driftwood end in southwestern Cameron County having been discovered late in 1951. Two other discoveries of minor significance were made in 1953, one at the Oriskany horizon in western Clearfield County and the other in the Albion (Medina) sand in southeastern Erie County. The Pine dome in northwestern Clearfield County was tested sufficiently to indicate that the major part of it will probably not be proved productive. Two Oriskany sand tests in the plateau region of northeastern Pennsylvania proved dry. One unsuccessful Cambro-Ordovician test was completed in the closely folded Appalachians in southeastern Clinton County.

Two hundred and four deep wells (Middle Devonian or deeper) were completed in 1953, as compared with 160 in 1952. Of these, 134 were gas wells. Major drilling activity in Pennsylvania during 1953 centered on the Benezette-Driftwood development in southeastern Elk and southwestern Cameron Counties. One hundred and twenty-four producing wells and 16 dry holes were drilled. The total number of shallow wells (Upper Devonian or higher) drilled was 1,770, essentially the same as in 1952.

Oil production in 1953 is estimated at 10,700,000 barrels, as compared with 11,179,000 barrels in 1952. Gas production was 98.3 billion cubic feet, as compared with 94.8 billion cubic feet in 1952.

INTRODUCTION

This report summarizes oil and gas developments in Pennsylvania in 1953. It is the fourth of a series of annual reports of this type, having been preceded by Progress Reports 135, 139, and 143. The summarized records of deep wells (P. R. 135, table 7; P. R. 139, table 1; P. R. 143, table 1, and P. R. 144, table 1) are intended to supplement Bulletin M 31, "Summarized Record of Deep Wells in Pennsylvania."

DEEP-SAND DEVELOPMENT

Summarized records of the deep wells (Middle Devonian or deeper) completed in north-central and western Pennsylvania are assembled in Table 1. The locations of the wells are shown on the maps in Plates 1 and 2. Of the 204 deep wells drilled in 1953 (160 in 1952), 134 were gas wells, 7 were drilled for gas storage, and 63 were dry holes. Of the dry holes, 14 were abandoned after drilling through the Tully limestone at the top of the Middle Devonian Series when it was discovered that they were off structure or when near-by wells indicated that reservoir

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conditions in the Oriskany formation were not favorable for the occurrence of gas.

Major activity in the Oriskany sand gas territory of north-central Pennsylvania centered on southeastern Elk County in 1953. The Benezette part of the Benezette-Driftwood gas field was opened early in 1953 by the completion of the Charleroi Mountain Club No. 1 well (No. 89 on map, Plate 1) in southeastern Elk County. The main part of the field occupies a prominent elongated, faulted dome along the northeast-southwest trending Driftwood anticline. At the end of 1953, the developed area of the Benezette-Driftwood field included about 20,900 acres. The limits of production had only been established at the northeastern end of the field and on the northwestern flank of the structure. There is good possibility for appreciable extension of the field to the southwest and southeast.

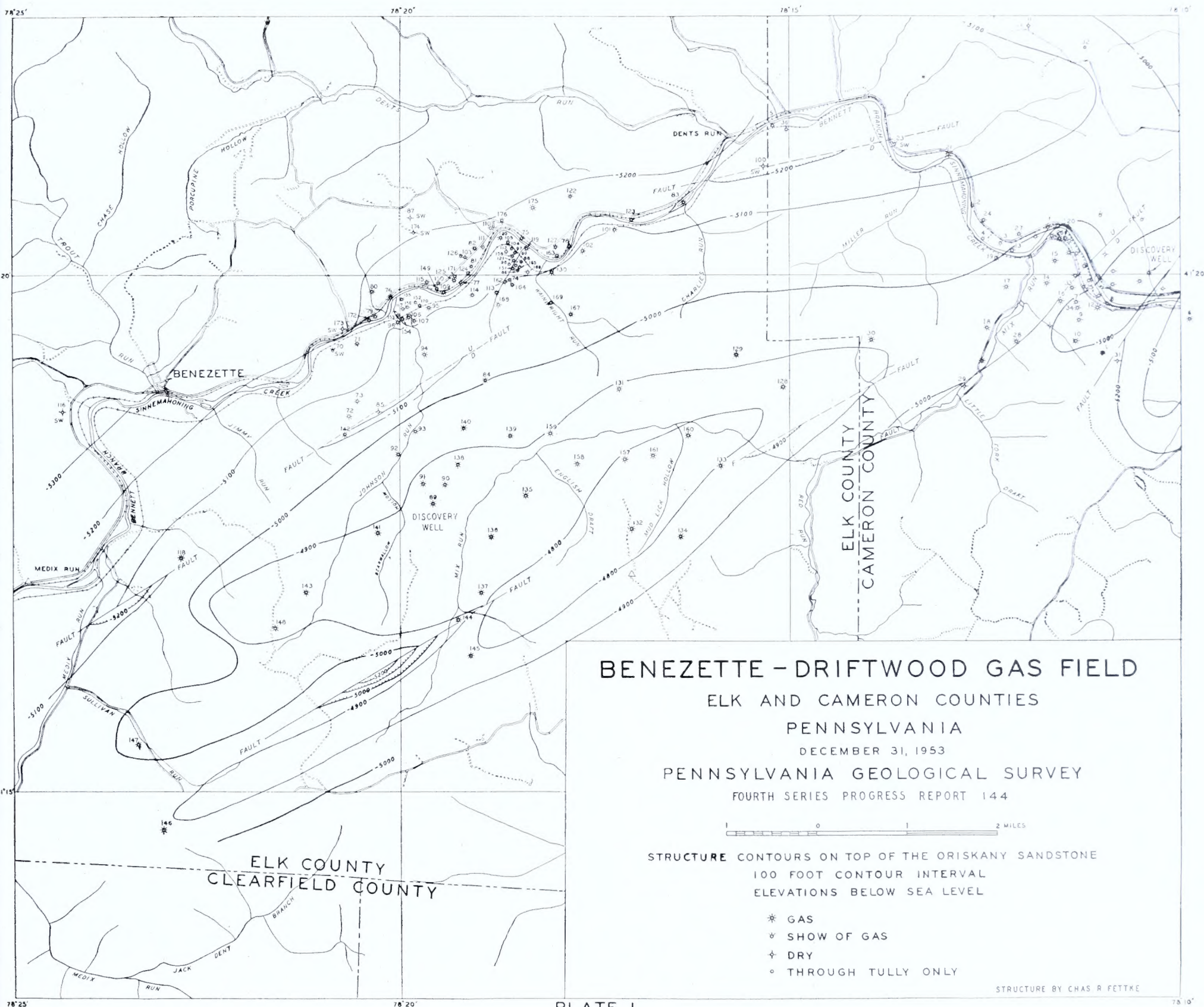
One hundred and twenty-four producing wells with average initial open-flow capacities of 6,841,000 cubic feet of gas per day and 16 dry holes were completed in the Benezette-Driftwood field during 1953. The initial open flows of the individual wells ranged from 400,000 to 31,600,000 cubic feet per day. The highest reservoir pressure recorded was 4,000 pounds per square inch. The average depth of the sand is 6,320 feet. The 1953 production amounted to 42.4 billion cubic feet. The Driftwood end of the field had already produced 3 billion cubic feet in 1952. At the close of 1953, the Benezette-Driftwood field was producing at a rate slightly in excess of 300 million cubic feet of gas per day.

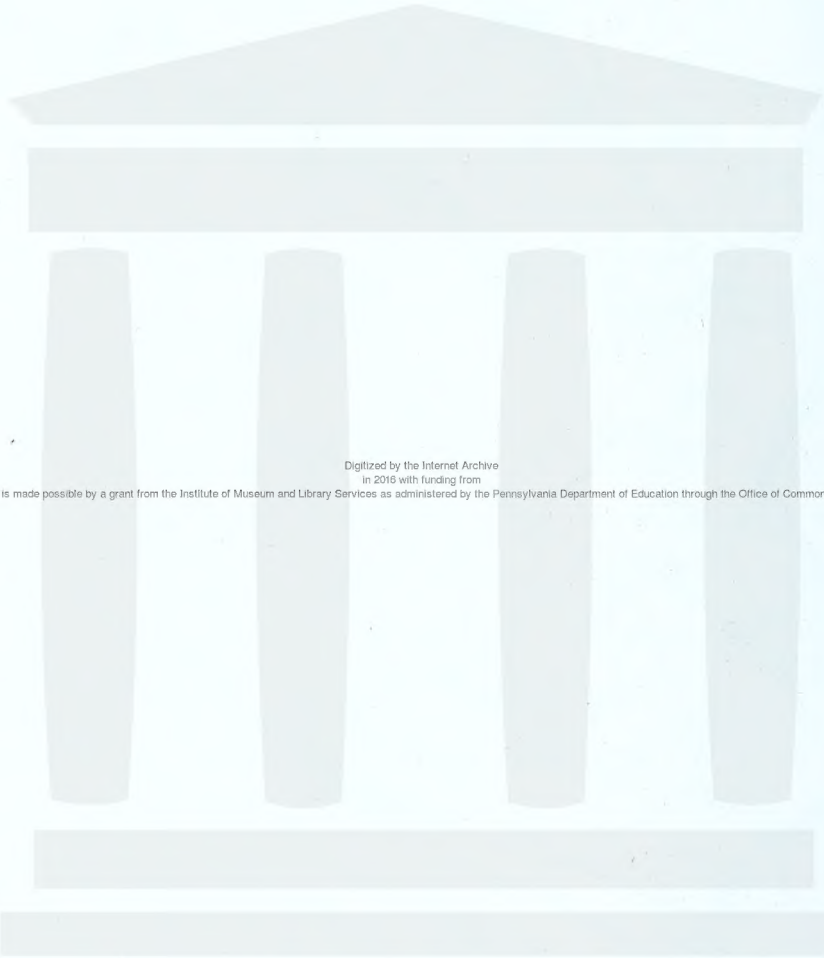
The Leidy gas field in Clinton County, discovered early in 1950, was nearly exhausted at the end of 1953. Four small producers and eight dry holes were completed in it during the year. The 1953 production amounted to only 4.3 billion cubic feet. The total production from this field at the end of 1953 was 89.5 billion cubic feet. The productive area includes about 10,500 acres.

One small gas well and one dry hole were completed in the East Fork-Wharton gas field of southern Potter County during 1953. Two dry holes were drilled in the Piper pool, a small Onondaga pool with fractured-chert type reservoir in east-central Westmoreland County, in an effort to extend its boundaries. The pool is located along the axis of the Chestnut Ridge anticline, on a dome which is complexly faulted.

Three additional producing wells at the southwestern end of the Corry pool, a small Medina (Lower Silurian) sand pool in southeastern Erie County, extended the boundaries of that pool slightly. The Frank Stutzman No. 1 Well (No. 177 on map, Plate 2), which encountered a small flow of gas in the Red Medina sand (Lower Silurian) may lead to the development of another small Medina sand pool in northwestern Pennsylvania. It is located about two miles south of the Corry pool.

The Alice Irwin No. 13 Well (No. 40 on map, Plate 2) in western Clearfield County encountered some gas at approximately the Oriskany horizon. Only about two feet of the fine- to medium-grained quartzitic sandstone are present at the Oriskany horizon at this locality. A small show of gas was observed as the well was drilled through the zone. Considerably later, when the zone was shot, an open flow of 700,000 cubic feet of gas per day was developed. There is some question whether the





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gas is coming from the sandstone, from fractured Onondaga chert and dark shale above it, or from sandy and cherty limestone below. Additional drilling is required to evaluate the discovery. The well is located at the southwestern end of the Pine dome along the Chestnut Ridge anticline. To the northeast, three other wells (Nos. 43, 44, and 45, Table 1 and map of Plate 2) encountered unfavorable reservoir conditions in the Oriskany formation along the crest of the Pine dome.

The Byron Schneider No. 1 Well (No. 184 on map, Plate 2) on the Oregon Hill dome along the Slate Run anticline in northern Lycoming County encountered tight sand at the Oriskany horizon. The Grants Tomb No. 1 (No. 183 on map, Plate 2) along the trend of the same anticline passed through a fault on the southeast flank of the anticline and was not completed to the Oriskany.

Wells 37, 38, 39, and 47 in Table 1 and on the map, Plate 2, verified the existence of unfavorable reservoir conditions in the Oriskany formation under the prominent Hyner dome in northwestern Centre County and central Clinton County.

The Buttermore Heirs No. 1 Well (No. 181 in Table 1 and on map, Plate 2), located on a prominent dome along the Chestnut Ridge anticline in northeastern Fayette County, did not reach the Oriskany. It was abandoned after drilling through the Tully limestone because the depth at which the latter was encountered indicated that the well had passed through a fault. A second test of the structure is underway.

The Nellie J. Harrison No. 1 Well and John Sheehan No. 1 Well (Nos. 185 and 204 in Table 1 and on map, Plate 2) are the first two wells to test the Oriskany formation underneath the plateau region of northeastern Pennsylvania. The results were not encouraging.

The Clifford Walizer No. 1 Well (No. 50 in Table 1 and on map, Plate 2) represents a Cambro-Ordovician test in the closely folded Appalachians in southeastern Clinton County. It is located on the Sugar Valley dome along the Fishing Creek anticline. No shows of gas or oil were encountered.

SHALLOW-SAND DEVELOPMENTS

Drilling in the shallow-sand territory of western Pennsylvania (Upper Devonian or higher) remained about the same as during the previous year. In all, 1,770 shallow-sand wells were completed, as compared with 1,739 in 1952. Of these, 224 were gas wells, 40 were oil wells, and 125 were dry holes. Eight were drilled for gas storage and 1,373 were drilled in connection with secondary recovery oil operations. Shallow-sand well completions, exclusive of those drilled in connection with underground gas storage and secondary-recovery oil operations, are shown in Table 2. The 224 new gas wells had a total initial open-flow capacity of 37,408,000 cubic feet per day, as compared with the total initial open-flow capacity of 34,784,000 cubic feet of the 240 gas wells completed in 1952. The 40 new oil wells had a total initial production of 152 barrels per day, as compared with the total initial production of 108 barrels of the 24 oil wells completed in 1952. The results obtained in 1953 by deepening 17 shallow-sand wells are shown in Table 3.

GAS

No new shallow-sand gas fields or pools were discovered in Pennsylvania in 1953. The greatest activity in the shallow-sand gas belt of western Pennsylvania occurred in Armstrong County where 51 gas wells were completed. Their average initial open-flow capacity, however, was only 221,000 cubic feet per day per well. A small Speechley sand gas pool in Elizabeth Township in southern Allegheny County, whose development was completed in 1953, furnished some good wells. One with an initial open-flow capacity of 3,100,000 cubic feet per day and a reservoir pressure of 1145 psi had yielded 400,000,000 cubic feet of gas at the end of ten months.

One well, 2,979 feet deep, was drilled for underground gas storage in Allegheny County; 3 storage wells averaging 1,887 feet in depth were drilled in Elk County, 2 averaging 2,767 feet in Washington County, and 2 averaging 1,405 feet in Westmoreland County.

OIL

The average daily oil production of Pennsylvania in 1953 was 29,318 barrels, as compared with 30,545 barrels in 1952, a decline of 3.7 percent. The decline in production was due in part to a drop in price. The price of crude oil in the northern and middle districts was \$4.05 per barrel and in the southwestern district \$3.61 at the end of the year, as compared with \$4.25 and \$3.82, respectively, at the beginning of the year.

In the Bradford oil field, which includes the Bradford, Guffey, and Burning Well pools, 1,255 new wells were drilled in connection with secondary-recovery operations, as compared with 1,252 in 1952. Oil production in this field, 86 percent of whose area is in Pennsylvania, decreased from a daily average of 26,420 barrels in 1952 to 25,614 in 1953, or a decrease of 3.0 per cent. The Pennsylvania part of the Bradford field accounted for 79.2 percent of the total production of the State in 1953.

In the Kane-Clarendon area of southwestern McKean County and eastern Warren County, 119 wells were completed in 1953, mostly in connection with water-flooding projects in the Clarendon pool of east-central Warren County. In the Venango district of northern Venango, and adjacent parts of northwestern Forest and southwestern Warren counties, 109 wells were drilled in connection with secondary-recovery oil operations in 1953, as compared with 77 in 1952. Of these, 21 were air- or gas-intake wells, 10 were water-intake wells, and 78 were oil wells. Oil production in the middle and southwestern districts of Pennsylvania decreased from a daily average of 7,058 barrels in 1952 to 6,112 barrels in 1953, or 13.4 percent.

No new oil fields or pools were discovered in Pennsylvania in 1953.

TABLE 2. Shallow-sand Well Completions in Pennsylvania in 1953*.

COUNTY	TOTAL		GAS			OIL			DRY	
	NUMBER OF WELLS	AVERAGE TOTAL DEPTH (feet)	NUMBER OF WELLS	AVERAGE INITIAL OPEN-FLOW (M. cu. ft. per day)	AVERAGE TOTAL DEPTH (feet)	NUMBER OF WELLS	AVERAGE INITIAL PRODUCTION (barrels per day)	AVERAGE TOTAL DEPTH (feet)	NUMBER OF WELLS	AVERAGE TOTAL DEPTH (feet)
Allegheny	32	2,518	14	531	2,418	8	9.6	2,061	10	3,024
Armstrong	62	3,011	51	221	3,005	0	—	—	11	3,040
Beaver	1	1,842	0	—	—	0	—	—	1	1,842
Butler	39	1,728	6	60	1,998	20	1.4	1,561	13	1,860
Cameron	2	3,778	0	—	—	0	—	—	2	3,778
Clarion	30	2,365	21	42	2,571	0	—	—	9	1,884
Clearfield	2	3,264	1	95	3,310	0	—	—	1	3,217
Clinton	5	4,226	0	—	—	0	—	—	5	4,226
Elk	10	2,281	8	101	2,146	0	—	—	2	2,323
Fayette	1	4,003	1	200	4,003	0	—	—	0	—
Forest	9	1,816	6	110	1,526	0	—	—	3	2,393
Greene	9	2,276	4	170	2,338	1	5.0	2,064	4	2,267
Indiana	13	2,788	5	89	2,585	0	—	—	8	2,914
Jefferson	73	2,911	45	56	2,853	2	4.5	1,984	26	3,082
Lycoming	1	2,743	0	—	—	0	—	—	1	2,743
McKean	20	2,126	14	60	2,159	0	—	—	6	2,050
Mercer	3	1,267	3	25	1,267	0	—	—	0	—
Potter	5	2,210	2	30	1,975	0	—	—	3	2,367
Tioga	2	1,725	1	17	1,850	0	—	—	1	1,600
Venango	1	1,197	0	—	—	1	—	—	0	—
Warren	11	1,311	7	50	1,278	2	2.0	1,197	2	1,614
Washington	36	2,447	20	372	2,385	6	1.0	1,125	10	2,394
Westmoreland	21	2,486	15	213	2,188	0	4.8	2,741	6	3,230
Wyoming	1	2,500	0	—	—	0	—	—	1	2,500
Total	389	2,512	224	167	2,534	40	3.8	1,841	125	2,686

* Does not include wells drilled in connection with underground storage or secondary-recovery oil operations.

TABLE 3. *Shallow-sand Wells Deepened in 1953.*

COUNTY	TOTAL		GAS			DRY	
	NUMBER OF WELLS	AVERAGE AMOUNT DEEPEMED (feet)	NUMBER OF WELLS	AVERAGE INITIAL OPEN-FLOW (M. cu. ft. per day)	AVERAGE AMOUNT DEEPEMED (feet)	NUMBER OF WELLS	AVERAGE AMOUNT DEEPEMED (feet)
Armstrong	11	1,521	9	47	1,633	2	1,018
Clarion	1	1,601	1	101	1,601	0	—
Greene	1	2,342	0	—	—	1	2,342
Jefferson	2	1,486	1	83	1,972	1	1,000
Washington	2	1,178	2	136	1,178	0	—
Total	17	1,530	13	68	1,587	4	1,359

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TABLE 1 SUMMARIZED RECORD OF DEEP WELLS DRILLED IN PENNSYLVANIA IN 1953

ELEVATIONS AND DEPTHS ARE IN FEET

SHEET 1

COUNTY	WELL NUMBER	NAME OF WELL	OPERATOR	TOWNSHIP	QUADRANGLE	LATITUDE	LONGITUDE	DATE COMPLETED	ELLEV	TULLY	ONONDAGA	OR SHANTY	TOTAL DEPTH	I.O.F. OR SHANTY MCF/DAY	CLOSED IN PRESSURE P.S.I.	REMARKS
Cameron	1	B & O RR	Phymouth Oil Co.	G. Asen	Driftwood	53 mi. N 41° 20'	147 mi. W 78° 10'	5-27-53	848	5120-5170	5819-	5857- Gas	5870	2100 after shot	1900	
"	2	B & O RR	Charles Sample	"	Driftwood	49 mi. N 41° 20'	210 mi. W 78° 10'	7-14-53	856	5125-	5835-	5868 Gas	5880	4500 after shot	3300 36 hrs	
"	3	J Brookbank	B & N Gas & Oil Co.	"	Driftwood	35 mi. N 41° 20'	200 mi. W 78° 10'	1-7-53	852	5130-	5845-	5881- Gas	5887	3100	3250 48 hrs	
"	4	J Brookbank	B & N Gas & Oil Co.	"	Driftwood	40 mi. N 41° 20'	215 mi. E 78° 15'	9-4-53	859	5141-	5840-	5875- Gas	5896	2992	2300 23 hrs	
"	5	Dunham-Furish	Art Kelly et al.	"	Benetelle	168 mi. N 41° 20'	18 mi. W 78° 15'	10-31-53	912	5345-	6039-	6076- Gas	6092	1438 after shot		
"	6	Chas Duell	New York State Nat Gas Corp.	"	Driftwood	49 mi. S 41° 20'	99 mi. E 78° 10'	6-20-53	1067	5369-	6110-	6148- Gas of 6155	6168	400 after shot	2945 76 hrs	
"	7	S.C. Eaton	New York State Nat Gas Corp.	"	Driftwood	29 mi. S 41° 20'	135 mi. W 78° 10'	2-20-53	990	5214-	5923-	5959- Gas	5980	2400	1805 41 hrs	
"	8	S.C. Eaton	New York State Nat Gas Corp.	"	Driftwood	30 mi. S 41° 20'	81 mi. W 78° 10'	1-3-53	825	5050-	5775-	5808- Gas	5822	2421	2170 14 hrs	
"	9	S.C. Eaton	New York State Nat Gas Corp.	"	Driftwood	50 mi. S 41° 20'	114 mi. N 78° 10'	4-21-53	1391	5615-	6332-	6368-6389 Gas	6390	3450	1740 17 hrs	
"	10	S.C. Eaton	New York State Nat Gas Corp.	"	Driftwood	73 mi. S 41° 20'	117 mi. W 78° 10'	5-20-53	1797	6029-	6748-	6788- Gas	6810	2626	1745 13 hrs	
"	11	Haver-Estate	Lone Dev Co.	"	Driftwood	276 mi. N 41° 20'	161 mi. W 78° 10'	4-17-53	1898	6710-	6924-	6960-	6983			Dry
"	12	R MacMillan	E Kent Kane	"	Driftwood	36 mi. S 41° 20'	93 mi. W 78° 10'	7-16-53	1002	5222-5343	5942-	5976- Gas	5986	1100 after shot	880 14 hrs	
"	13	HA Moale et al	Delta Drilling Co.	"	Driftwood	21 mi. S 41° 20'	181 mi. W 78° 10'	1-2-53	866	5111-	5818-	5842- first gas at 5845	5851	2166	660 15 hrs	
"	14	HA Moale et al	The Sylvania Corp., No. 343	"	Driftwood	19 mi. S 41° 20'	148 mi. W 78° 10'	1-12-53	1062	5297- 5407	5967 6040	6040 6069 show gas at 6044 ft	6072	176 after shot	660 15 hrs	shot high gas at 47 shot high gas at 46
"	15	HA Moale et al	The Sylvania Corp., No. 341	"	Driftwood	15 mi. N 41° 20'	140 mi. W 78° 10'	2-17-53	962	5188-	5917-	5952-5982 show of gas	5984	134 after shot	1520 11 hrs	
"	16	HA Moale et al	The Sylvania Corp., No. 344	"	Driftwood	29 mi. S 41° 20'	135 mi. W 78° 10'	6-12-53	1517	5758-	6520-	6563-6588 smoke gas at 6545	6592	990 after shot	1400 37 hrs	shot 16 g's 6564-6568
"	17	HA Moale et al	The Sylvania Corp., No. 346	"	Driftwood	13 mi. S 41° 20'	192 mi. W 78° 10'	6-22-53	1196	5422-	6135-	6164-6189 Gas	6195	2100	2275 40 hrs	
"	18	HA Moale et al	The Sylvania Corp., No. 345	"	Driftwood	69 mi. S 41° 20'	215 mi. W 78° 10'	7-3-53	1092	5270-	5985-	6017-6033 Gas	6040	1473	2575 17 hrs	
"	19	HA Moale et al	The Sylvania Corp., No. 348	"	Driftwood	19 mi. N 41° 20'	205 mi. W 78° 10'	8-13-53	993	5251-	5969-	5995- Gas 5997-6004	6023	3000 after shot	2250 12 hrs	
"	20	Stella Moale	Pamoco Oil & Gas Co.	"	Driftwood	40 mi. N 41° 20'	127 mi. W 78° 10'	1-2-53	846	5072-	5975-	5833 Gas	5840	2500 after shot	1715 3 days	
"	21	A J Moser	Stevenson Dev Co.	"	Driftwood	134 mi. N 41° 20'	176 mi. E 78° 15'	8-21-53	869	5260-	5946-	5983- Gas	5995	2300	3100 12 hrs	
"	22	Thos Murray Estate, No. 1	National Expl & Dev. Co.	"	Cameron	2.67 mi. S 41° 25'	95 mi. W 78° 10'	1-17-53	934	5178-			6094			Abandoned above Oriskany
"	23	New Bethlehem Rod & Gun Club	Stellman and Roy	"	Driftwood	140 mi. N 41° 20'	118 mi. E 78° 15'	4-25-53	949	5284-	6080-	6107- gas and show water	6128	41 after shot		5 gal salt water in 12 hrs
"	24	HL Pearson	John Fox	"	Driftwood	60 mi. N 41° 20'	215 mi. E 78° 15'	2-2-53	931	5274	5920-	5956- shot 5500-5970	5978	3000 after shot	3400 36 hrs	
"	25	Penn RR	B.M. Zimmer et al.	"	Driftwood	13 mi. S 41° 20'	108 mi. W 78° 10'	3-9-53	886	5152-	5878-	5916- show of gas	5946			shot with 120 g's
"	26	Penn RR	B.M. Zimmer et al.	"	Driftwood	40 mi. N 41° 20'	134 mi. W 78° 10'	9-10-53	869	5117-	5817-	5849- Gas	5860	1800 after shot	1000	
"	27	State of Penna. Tract 19, No. 4	Mrs L & H Co. Hela Gas & Oil Co.	"	Driftwood	46 mi. N 41° 20'	179 mi. W 78° 10'	6-10-53	958	5221-	5953-	5990- show of gas	6019	300 after shot		
"	28	State of Penna. Tract 19, No. 4	Mrs L & H Co. Hela Gas & Oil Co.	"	Driftwood	46 mi. N 41° 20'	179 mi. W 78° 10'	6-10-53	958	5221-	5953-	5990- show of gas	6019	300 after shot		

COUNTY	TRACT	OWNER	ACRES	DATE	PRICE	REMARKS	STATUS	DATE	PRICE	REMARKS	STATUS
Camden	29	State of Panna Tract 20, No. 3	1.23 mi. S 41° 20' S	194 mi. E 78° 15' E	3-13-53	964	5203-	6120-6162	6183	6162-6185 Soil water	Self water rose 1200 feet
"	30	State of Panna Tract 20, No. 6	.72 mi. S 41° 20' S	.90 mi. E 78° 15' E	10-20-53	2064	6237-	6992-	7007	6992-7004 Gos	Shot 6384-7004 No increase
"	31	State of Panna Tract 21, No. 1	.96 mi. S 41° 20' S	.70 mi. W 78° 10' E	3-27-53	2175	6606-	7390-	7438	7435- soil water at 1418	Self water rose 200 ft.
"	32	Earl Saunders	2.48 mi. N 41° 20' S	1.02 mi. W 78° 10' E	8-21-53	1926	6275-		6330		Abandoned above Onondaga
"	33	Clyde Smith	.15 mi. S 41° 20' S	1.20 mi. W 78° 10' E	2-20-53	1006	5249-	6017-	6075	6055- show of gas	970 after shot 16 hrs
"	34	Clyde Smith	.37 mi. S 41° 20' S	1.15 mi. W 78° 10' E	5-20-53	1132	5365-	6083-	6150	6118-6145 Gos	995 after shot 14 hrs
"	35	The Sylvania Corp., No. 1	2.78 mi. N 41° 20' S	1.21 mi. E 78° 10' E	6-25-53	1050	5246-	5946-	6015	5987	Dry
"	36	James A. Vause	1.60 mi. N 41° 20' S	.02 mi. W 78° 15' E	8-22-53	931	5387-	6070-	6107	6101- Gos	3925 18 hrs
Centre	37	Crawford	.77 mi. S 41° 05' S	2.15 mi. E 78° 05' E	2-20-53	1545	7200-	8270-	8358	8305-	Dry
"	38	State of Panna Tract E, No. 2	1.15 mi. S 41° 10' S	.15 mi. W 77° 55' E	5-14-53	2166	7280-7448	8308-	8399	8351-	Dry
"	39	City of Philadelphia	2.37 mi. N 41° 05' S	1.06 mi. E 78° 00' E	1-30-53	1959	7125-	8238-	8320	8270-	Dry
Clearfield	40	Alce Irwin	1.98 mi. S 41° 00' S	.75 mi. W 78° 45' E	12-1-53	1735		7221-7295	7840	7285-7301 Shiner, 1801-	Shot 7285-7335
"	41	M. T. Steel	2.48 mi. N 41° 10' S	.95 mi. W 78° 10' E	5-25-53	1979	6605-6717	7400-7442	7563	7442-7462	Dry
"	42	Abino	1.25 mi. N 41° 00' S	1.63 mi. E 78° 35' E	8-7-53	1987	6797-	7457-	7532	7513- show of gas	Show of gas and Onondaga
"	43	O. W. McNeil	1.19 mi. S 41° 05' S	.43 mi. E 78° 35' E	7-25-53	2324	6364-	7230-	7383	7282-7292	Dry
"	44	State of Panna Tract C, No. 1	2.13 mi. N 41° 05' S	.25 mi. W 78° 30' E	12-29-53	2137	6298-6338	7016-	7094	7073-7080 show gas 7017-70	Abandoned
"	45	State of Panna Tract C, No. 2	.65 mi. N 41° 05' S	2.00 mi. E 78° 35' E	6-19-53	2298	6417-6557	7129-7181	7232	7191-7230	Dry
Clinton	46	Corman	.53 mi. N 41° 05' S	1.80 mi. W 77° 30' E	6-30-53	585			6732		Drilled in Albion Dry
"	47	State of Panna Tract E, No. 1	2.62 mi. S 41° 15' S	.79 mi. E 77° 50' E	9-1-53	2254	6879-7025	7887-7916	7942	7916-7940	Dry
"	48	Balser-Wiber	.53 mi. S 41° 25' S	1.64 mi. E 78° 00' E	10-12-53	2120	6482-	7254	7306	7280-	Dry
"	49	Pollack	2.71 mi. N 41° 15' S	1.40 mi. W 77° 55' E	1-17-53	1352	6150- 6798-		7287		Abandoned above Onondaga
"	50	Clifford Walzer	1.78 mi. N 41° 00' S	2.22 mi. W 77° 15' E	5-5-53	1291			4532		Drilled in Onondaga Abandoned
"	51	Harold Brooks	1.88 mi. S 41° 25' S	1.06 mi. W 77° 55' E	6-10-53	960	4844-	5637-	5674	5664 Gos	60 24 hrs
"	52	Calhoun Estate	.74 mi. S 41° 25' S	.64 mi. E 77° 35' E	3-25-53	1563	5380-	6233-	6288	6251- 1 mi. gas at 6257	550 2 days
"	53	George Cross	2.10 mi. S 41° 25' S	.48 mi. E 77° 55' E	1-28-53	1567	6080- 6547-		7515		Abandoned above Onondaga
"	54	Frank Daugherty	1.04 mi. N 41° 25' S	1.90 mi. W 77° 50' E	11-20-53	1405	5283-		5364		Abandoned above Onondaga
"	55	Ray G. Hinger	.34 mi. N 41° 25' S	.61 mi. W 77° 50' E	1-23-53	1702	5966-6070	6762-6797	6801	6797- soil water at 6801	Self water rose 4000 ft. in 4 days
"	56	George Jents	.46 mi. S 41° 25' S	.21 mi. W 77° 50' E	1-6-53	1716			6696		Abandoned above Onondaga

COUNTY	MAP NUMBER	NAME OF WELL	OPERATOR	TOWNSHIP	QUADRANGLE	LATITUDE	LONGITUDE	DATE COMPLETED	ELEV.	TULLY	ONONDAGA	ORISKANY	TOTAL DEPTH	I. O. F. OR SPARKY M.C.F./DAY	CLOSED IN PRESSURE P.S.I.	REMARKS
Clinton	57	Jen's 3	Slyer and McGuire	Leidy	Tamarack	45 mi. S 41° 25'	14 mi. W 77° 50'	2-21-53	1692	6035-	6844-	6863- Salt water	6886			Salt water at 6882
	58	Jen's 5	John McGuire	Leidy	Tamarack	23 mi. S 41° 25'	17 mi. W 77° 50'	4-17-53	1705	6013-	6809-	6829-	6860			Dry
	59	State of Penna Tract 14, No. 1	Parsons Fox	Leidy	Tamarack	64 mi. N. 41° 25'	152 mi. E 77° 50'	4-17-53	1554	5879-	6690-	6718 6734 Gas	6741	250	2700	
	60	State of Penna Tract 14, No. 2	Parsons Fox	Leidy	Tamarack	217 mi. N 41° 25'	188 mi. E 77° 50'	9-9-53	1783	6025-640	6858-6878	6878- Show of gas and salt water	6889	50		Salt water rose 1700 ft
	61	State of Penna Tract 15, No. 3	Parsons Fox	Leidy	Tamarack	181 mi. N 41° 25'	174 mi. W 77° 45'	5-2-53	1811	6015-	6843-6872	6872-6916 Show of gas	6925	67	3050 19 days	Abandoned
	62	State of Penna Tract 22, No. 3	New York State Nat. Gas Corp.	Leidy	Tamarack	38 mi. S. 41° 25'	41 mi. E 77° 50'	5-10-53	2100	6512-	7336-	7354- Salt water	7388			Salt water rose 140 ft. in 1 hr.
	63	State of Penna Tract 23, No. 1	Parson Brothers	Leidy	Tamarack	17 mi. N 41° 25'	60 mi. E 77° 50'	2-27-53	2011	6330-			6440			Abandoned above Onondaga
	64	Deus Schooner	Art Kelley et al	Leidy	Hammersley Fork	210 mi. S 41° 25'	48 mi. E 77° 55'	2-10-53	1484	6250-	6023-	6040- Salt water at 6040	7004			Abandoned above Onondaga
	65	Steels Estate	John McGuire	Leidy	Hammersley Fork	140 mi. N 41° 25'	39 mi. E 78° 00'	1-20-53	1914	6355-	7078-	7100-	7133			Dry
	66	Art Summerson	Tin Centre Gas & Oil Co	Leidy	Hammersley Fork	223 mi. S 41° 25'	01 mi. E 77° 55'	7-25-53	1014	5224-	6023-	6040- Salt water at 6040	6040			Salt water rose 6040 ft
	67	Earl Summerson	Doebler et al	Leidy	Hammersley Fork	223 mi. S 41° 25'	33 mi. E 77° 55'	4-11-53	1173	5688-			7012			Abandoned above Onondaga
	68	Merle A Wilson	C.C. Slance et al	Leidy	Tamarack	15 mi. N 41° 25'	74 mi. W 77° 50'	3-20-53	1834	6110-			7008			Abandoned above Onondaga
	69	Wertz	A Kelly et al	Noyes	Renovo West	118 mi. S 41° 20'	157 mi. W 77° 45'	4-17-53	787	6185-			6500			Abandoned above Onondaga
Elk	70	Ahlborn Coal Co	Arrowhead Oil & Gas Co	Benezette	Benezette	83 mi. S 41° 20'	75 mi. W 78° 20'	7-22-53	1090	5588-	6246-	6286- Salt water and gas	6307	587 at 6287		Salt water rose at 6287
	71	Ahlborn Coal Co	Arrowhead Oil and Gas Co	Benezette	Benezette	76 mi. S 41° 20'	48 mi. W 78° 20'	12-14-53	1224	5705-	6325-	6380- Gas	6390	2300 after shot	2900 30 hrs	
	72	Ahlborn Coal Co	Clearfield Dev. Co.	Benezette	Benezette	156 mi. S 41° 20'	56 mi. W 78° 20'	10-12-53	1940	6288-	6929-	6957- Gas	6960	28,000 7 days		
	73	Ahlborn Coal Co	Flyer and Hanson	Benezette	Benezette	139 mi. S 41° 20'	50 mi. W 78° 20'	12-3-53	1886	6287-	6956-	6980- Gas	6999	8400 3150	12 hrs	
	74	Allegheny Hunting Club	Ovis Biller	Benezette	Benezette	106 mi. S 41° 20'	120 mi. E 78° 20'	12-3-53	1076	5505-	6151-	6179- Gas	6191	3600 after shot	1450 24 hrs	
	75	B & O RR	Mid-Atlantic Oil & Gas Co	Benezette	Benezette	44 mi. N 41° 20'	135 mi. E 78° 20'	7-9-53	946	5430-5510	6044-6075	6075- Gas	6084	14,250 10 hrs	3600	
	76	B & O RR	Mid-Atlantic Oil & Gas Co	Benezette	Benezette	26 mi. S 41° 20'	111 mi. W 78° 20'	9-28-53	953	5442-	6087-	6120- Gas	6131	3000 after shot	2560 48 hrs	
	77	B & O RR	Mid-Atlantic Oil & Gas Co	Benezette	Benezette	108 mi. S 41° 20'	67 mi. E 78° 20'	11-25-53	925	5364-	6010-	6042- Gas	6062	5,000	3100	
	78	B & O RR	Mid-Atlantic Oil & Gas Co	Benezette	Benezette	33 mi. N 41° 20'	188 mi. E 78° 20'	12-5-53	929	5372-	6014-	6047- Gas	6067	4,200	2400	
	79	K Barlett	John Fox	Benezette	Benezette	47 mi. S 41° 20'	26 mi. W 78° 20'	5-11-53	953	5484-5535	6075-6110	6110- Gas	6134	9,500	3900 14 hrs	
	80	K Barlett	James H. Isherwood, Jr.	Benezette	Benezette	29 mi. S 41° 20'	31 mi. W 78° 20'	8-20-53	1091	5592-	6232-	6267- Gas	6269	9,800	3160 20 hrs	
	81	Sam Bakeman	Lock Haven Dev. Co.	Benezette	Benezette	109 mi. N 41° 20'	79 mi. E 78° 20'	6-27-53	938	5434-	6077-	6110 Gas	6112	16,980	3880	
	82	Core Bennett	C.G. Waple Dev. Co.	Benezette	Benezette	30 mi. N 41° 20'	83 mi. E 78° 20'	11-17-53	991	5490-	6140-	6172 Gas	6185	1,474 after shot	1600	
	83	Billings and Mason No. 2	Meta Gas Co.	Benezette	Benezette	81 mi. N 41° 20'	118 mi. W 78° 20'	11-10-53	896	5368-	6025-	6050- Gas	6062	4,800	3660	

E/A	NUMBER		Benezette	The Sylvia Corp	1.52 mi. S. 41°20'	25 mi. W. 78°20'	COMPLETED	1975	6302-	7253-	7282-	DEPTH	WCT/DAY	P.S.I.
"	85	H. Bleish	Benezette	"	0.5 mi. N. 41°20'	1.30 mi. E. 78°20'	12-7-53	1975	6302-	7253-	7282-	7300		Dry
"	86	Boltz	"	"	63 mi. N. 41°20'	1.1 mi. E. 78°20'	11-26-53	1025	5840-	6116-	6151-	6157	4,200 after shot	1500 38 hrs
"	87	B.K. Carr	"	"	15 mi. N. 41°20'	1.34 mi. E. 78°20'	11-5-53	1631	6157-	6770-	6805-	6810		Salt water rose 225 ft
"	88	Comp Kishi	"	"	2.54 mi. S. 41°20'	1.30 mi. E. 78°20'	12-31-53	965	5404-	6097-	6124-	6137	2,646 after shot	1340 48 hours
"	89	Charlton Mt Club, No 1	"	"	2.33 mi. S. 41°20'	1.50 mi. E. 78°20'	1-5-53	2055	6208-	6909-	6943-	6975	2,800 after shot	3900 5 days
"	90	Charlton Mt Club, No 2	"	"	2.32 mi. S. 41°20'	1.24 mi. E. 78°20'	6-1-53	2070	6211-	6896-	6924-	6943	5,250 after shot	3200 20 hrs
"	91	Charlton Mt Club, No 3	"	"	1.99 mi. S. 41°20'	1.02 mi. W. 78°20'	5-2-53	2035	6208-6330	6883-6915	6915-	6936	17,000	
"	92	Charlton Mt Club, No 5	"	"	1.74 mi. S. 41°20'	1.18 mi. E. 78°20'	9-30-53	1323	5575-	6262-	6296-	6305	8,000	2800 26 hrs
"	93	Charlton Mt Club, No 6	"	"	88 mi. S. 41°20'	1.27 mi. E. 78°20'	8-7-53	1241	5508-	6163-	6197-	6218	2,700	3720 14 hrs
"	94	Charlton Mt Club, No 7	"	"	36 mi. S. 41°20'	1.32 mi. E. 78°20'	11-4-53	1079	5440-	6071-	6103-	6105	26,000	3100 15 hrs
"	95	Charlton Mt Club, No 9	"	"	52 mi. S. 41°20'	1.03 mi. W. 78°20'	12-5-53	1054	5495-	6141-	6172-	6187	10,750	
"	96	Charlton Mt Club, No 10	"	"	25 mi. N. 41°20'	1.27 mi. E. 78°20'	10-14-53	990	5435-	6070	6102-	6118	16,000	2550 14 hrs
"	97	Coleman	"	"	11 mi. N. 41°20'	1.22 mi. E. 78°20'	9-29-53	978	5430-	6103-	6133-	6147	5,800 after shot	1960 24 hrs
"	98	Arthur Davis	"	"	120 mi. N. 41°20'	1.30 mi. W. 78°15'	12-9-53	1055	5500-		6190-	6212	2,700 after shot	1450
"	99	Davis and Snyder	"	"	50 mi. N. 41°20'	1.33 mi. W. 78°15'	12-11-53	1005	5453-	6098-	6121-	6136	2,500	1450 30 hrs
"	100	Deer Run Coal Co, No 1	"	"	27 mi. N. 41°20'	2.03 mi. E. 78°20'	12-30-53	1302	5795-	6498-	6521-	6527		Salt water
"	101	Samuel Entz	"	"	20 mi. N. 41°20'	1.23 mi. E. 78°20'	7-19-53	1022	5400-5525	6069-6096	6096-	6116	10,000	3875 14 hrs
"	102	Samuel Entz	"	"	36 mi. N. 41°20'	1.19 mi. E. 78°20'	11-7-53	1196	5574-	6251-	6295-	6315	4,800	2500 15 hrs
"	103	Louis Gourdain	"	"	45 mi. S. 41°20'	1.0 mi. E. 78°20'	12-5-53	1013	5505-	6158-	6191-	6199	1,350 after shot	1500 32 hrs
"	104	Grafton	"	"	51 mi. S. 41°20'	1.6 mi. E. 78°20'	8-10-53	976	5446-	6105-	6132-	6146	5,750	3000 14 hrs
"	105	Green	"	"	21 mi. N. 41°20'	1.25 mi. E. 78°20'	11-3-53	964	5455-	6108-	6142-	6154	3,300 after shot	1600 48 hrs
"	106	Gumbel	"	"	18 mi. S. 41°20'	1.0 mi. E. 78°20'	9-3-53	1026	5460-	6090-	6119	6121	31,600	3360
"	107	Gumbel	"	"	51 mi. S. 41°20'	1.6 mi. E. 78°20'	12-27-53	1050	5459-	6129-	6159-	6172	10,000	1250 24 hrs
"	108	Hol Shot Comp	"	"	21 mi. N. 41°20'	1.25 mi. E. 78°20'	10-3-53	996	5456-	6116-	6147-	6160	3,474 after shot	1990 48 hrs
"	109	Johns	"	"	18 mi. S. 41°20'	1.0 mi. E. 78°20'	9-10-53	924	5375-	6035-	6061-	6073	8,530	3050 15 hrs
"	110	Basil Johnson	"	"	51 mi. N. 41°20'	1.00 mi. E. 78°20'	8-11-53	954	5460-	6102-	6132	6146	5,000	3020 24 hrs
"	111	Basil Johnson	"	"	30 mi. N. 41°20'	1.2 mi. E. 78°20'	8-11-53	938	5435-	6089-	6106-	6119	4,000	3170 24 hrs
"	112	Glenn Johnson	"	"	28 mi. N. 41°20'	1.20 mi. E. 78°20'	7-23-53	1012	5495-	6158	6183-	6202	9,250	3120 24 hrs

TABLE SHEET 5
SUMMARIZED RECORD OF DEEP WELLS (continued)

COUNTY	MAP NUMBER	NAME OF WELL	OPERATOR	TOWNSHIP	QUADRANGLE	LATITUDE	LONGITUDE	DATE COMPLETED	ELEV.	TULLY	ONONDAGA	ORISKANY	TOTAL DEPTH	I.O.F. ORISKANY M.C.F./DAY	CLOSED IN PRESSURE P.S.I.	REMARKS
Elk	113	Johnson Estate 1	Heta Gas and Oil Co.	Benezette	Benezette	21 mi. S. 41° 20'	1.07 mi. E. 78° 20'	6-3-53	1200	5600 - 5730	6246 - 6277	6277- Gas	6307	9,800	4020	
"	114	Johnson Estate 2	Heta Gas and Oil Co.	"	"	23 mi. S. 41° 20'	8.0 mi. E. 78° 20'	10-1-53	1354	5787-	6448 -	6477- Gas	6497	6,800 after shot	2600 36 hrs.	
"	115	Johnson Estate 3	Heta Gas and Oil Co.	"	"	08 mi. S. 41° 20'	3.0 mi. E. 78° 20'	8-25-53	1095	5583 -	6228 -	6258- Gas	6263	16,000	3200 15 hrs	
"	116	Jones Estate 1	L.C. Thurston	"	"	1.92 mi. S. 41° 20'	5.6 mi. E. 78° 25'	10-13-53	1042	5718-	6342 -	6398- soil water in 36 hrs	6420			
"	117	Mackey 1	Alme Drilling Co.	"	"	38 mi. S. 41° 20'	0.4 mi. E. 78° 20'	8-28-53	968	5426-	6073 -	6102- Gas	6105	14,500	3300 20 hrs	
"	118	Demer-Miller 1	Chas E. Fralich & Associates	"	"	2.15 mi. N. 41° 15'	1.92 mi. E. 78° 25'	12-3-53	1815	6152- 6280	6828-	6868- Gas	6885	8,300	3750 60 hrs	
"	119	John W. Miller 1	Chas. Sample and G.L. Cabot, Inc.	"	"	28 mi. N. 41° 20'	1.32 mi. E. 78° 20'	8-1-53	924	5360- 5460	6006 -	6029- Gas	6048	7,000	3745	
"	120	John W. Miller 2	Chas. Sample and G.L. Cabot, Inc.	"	"	41 mi. N. 41° 20'	1.11 mi. E. 78° 20'	8-10-53	932	5420-	6078 -	6108- Gas	6122	5,239	3100 18 hrs.	
"	121	Mt. View Camp 1	Clearfield Dev. Co.	"	"	16 mi. N. 41° 20'	1.36 mi. E. 78° 20'	10-6-53	1028	5490-	6140 -	6170- Gas	6190	3750 after shot	1980 20 hrs.	
"	122	Moncrey 1	Geo. McAnney et al.	"	"	8.7 mi. N. 41° 20'	1.88 mi. E. 78° 20'	11-26-53	1704	6169 -	6816 -	6841- Gas	6842	5,000		
"	123	Presley Ober 1	James I. Shaeffer	"	"	6.1 mi. N. 41° 20'	1.78 mi. W. 78° 15'	10-17-53	904	5330 -	6018 -	6046- Gas	6064	4,981	3600 16 hrs	
"	124	Finley Overluff 1	Blue Rock Drilling Co.	"	"	02 mi. N. 41° 20'	1.5 mi. E. 78° 20'	8-21-53	948	5438 -	6070 -	6092- Gas	6100	8,300		
"	125	Finley Overluff 2	H.S. McHoy et al.	"	"	06 mi. S. 41° 20'	0.0 mi. E. 78° 20'	9-24-53	933	5400 -	6040 -	6079- Gas	6088	14,300	2500 48 hrs	
"	126	Finley Overluff 3	H.S. McHoy et al.	"	"	20 mi. N. 41° 20'	0.8 mi. E. 78° 20'	12-4-53	1042	5552 -	6204 -	6227- Gas	6240	1,100 after shot	1450 36 hrs	
"	127	Nicola Pasuzzi 1	Chas E. Fralich & Associates	"	"	31 mi. N. 41° 20'	1.71 mi. E. 78° 20'	8-24-53	998	5460 -	6114 -	6142- Gas	6160	1,800	3200 28 hrs	
"	128	Harold Pearsall 1	Chas E. Fralich & Associates	"	"	1.24 mi. S. 41° 20'	0.6 mi. W. 78° 15'	7-22-53	2131	6250 -	6936 -	6957- Gas at 6974	6977	25,000	3200 48 hrs	
"	129	Harold Pearsall 1	The Sylvania Corp., No. 333	"	"	89 mi. S. 41° 20'	5.9 mi. W. 78° 15'	10-12-53	2026	6228 -	6931 -	6952- Gas	6975	5,700	3600 48 hrs	
"	130	Penna. RR. 1	John Fox	"	"	04 mi. N. 41° 20'	1.68 mi. E. 78° 20'	8-11-53	1015	5423 -	6090 -	6114 Gas	6131	4,002		
"	131	State of Penna. Tract 26, No. 1	Manufacturers Light & Heat Co.	"	"	1.27 mi. S. 41° 20'	1.90 mi. W. 78° 15'	11-26-53	1991	6175 -	6855 -	6887- Gas	6904	4,000	3225 36 hrs	
"	132	State of Penna. Tract 27, No. 1	Tennessee Producing Co.	"	"	2.81 mi. S. 41° 20'	1.76 mi. W. 78° 15'	11-11-53	2193	6212 - 6315	6890 -	6932- Gas	6955	10,000	3210 15 hrs	
"	133	State of Penna. Tract 27, No. 2	Tennessee Producing Co.	"	"	2.11 mi. S. 41° 20'	7.8 mi. W. 78° 15'	10-31-53	2118	6190 -	6884 -	6924- Gas	6953	10,849	3440 13 hrs	
"	134	State of Penna. Tract 27, No. 3	Tennessee Producing Co.	"	"	2.86 mi. S. 41° 20'	1.20 mi. W. 78° 15'	12-23-53	2155	6220 -	6955 -	6996- 7014 Gas	7018	4,333	2850 16 hrs	
"	135	State of Penna. Tract 28, No. 1	Tennessee Producing Co.	"	"	2.45 mi. S. 41° 20'	1.39 mi. E. 78° 20'	11-17-53	2083	6235 -	6905 -	6933- Gas	6938	20,000	3210	
"	136	State of Penna. Tract 28, No. 2	Tennessee Producing Co.	"	"	2.82 mi. N. 41° 15'	1.01 mi. E. 78° 20'	10-20-53	2127	6245 -	6929 -	6971- Gas	7002	6,000	3260 41 hrs.	
"	137	State of Penna. Tract 28, No. 3	Tennessee Producing Co.	"	"	2.20 mi. N. 41° 15'	9.1 mi. E. 78° 20'	12-26-53	2109	6200 - 6322	6896 -	6938- Gas	6972	1,108 after hydrofrac	2800 84 hrs	
"	138	State of Penna. Tract 29, No. 2	New York State Nat. Gas Corp.	"	"	2.10 mi. S. 41° 20'	0.4 mi. E. 78° 20'	9-9-53	2053	6215 -	6899 -	6931- Gas	6947	4,332	3220 40 hrs	
"	139	State of Penna. Tract 29, No. 3	New York State Nat. Gas Corp.	"	"	1.88 mi. S. 41° 20'	1.22 mi. E. 78° 20'	11-25-53	2010	6230 -	6907 -	6940- Gas	6965	4,642	3210	

SUMMARIZED RECORD OF DEEP WELLS (continued)

COUNTY	MAP NUMBER	NAME OF WELL	OPERATOR	TOWNSHIP	QUADRANGLE	LATITUDE	LONGITUDE	DATE COMPLETED	ELEV.	TULLY	ONONDAGA	ORISHANY	TOTAL DEPTH	100 ORISHANY MCF/DAY	CLOSED IN DATE P.S.I.	REMARKS
Elk	169	W A Thurbey	Mid-Atlantic Oil & Gas Co.	Benezette		30 mi. S 41° 20'	1.66 mi. E 78° 20'	12-4-53	1087	5469-	6118-	6165- Gas	6175	8,000	2100 30 hrs	
"	170	Van Voorhees	P. M. Kahle	Benezette		34 mi. S 41° 20'	21 mi. E 78° 20'	10-3-53	974	5418-	6076-	6102- Gas	6117	11,000	2575 14 hrs	
"	171	Van Voorhees	D. M. Simon et al.	Benezette		01 mi. S 41° 20'	67 mi. E 78° 20'	7-11-53	974	5424-	6064-	6097- Gas	6099	10,000	3880 2 hrs	
"	172	Robert Weiss	Blue Rock Drilling Co.	Benezette		49 mi. S 41° 20'	33 mi. W 78° 20'	8-16-53	951	5438-	6091-	6128- Gas	6141	5,000 after shut	2,500 7 hrs	Salt water rose 200 ft. in 12 hrs
"	173	Robert Weiss	Blue Rock Drilling Co.	Benezette		62 mi. S 41° 20'	62 mi. W 78° 20'	9-8-53	961	5499-	6147-	6168 salt water	6172			Salt water
"	174	Winslow	Howard Becker et al.	Benezette		47 mi. N 41° 20'	15 mi. E 78° 20'	11-13-53	1694	6140-	6815-	6853- salt water	6859			
"	175	Winslow	James I. Steiner	Benezette		74 mi. N 41° 20'	147 mi. E 78° 20'	11-28-53	1710	6197-	6860-	6881- Gas	6891	3,373 after shut	2600 38 hrs	
"	176	Wm. Woodring	Brant Valley Dev. Co.	Benezette		60 mi. N 41° 20'	114 mi. E 78° 20'	3-9-53	995	5466-	6112-	6152 Gas	6163	713	800 1 hr	
Erie see next page	177															
Fayette	180															
	181	Bullmore Heirs, No 1	Acme Dye & Machine Co.	Springfield	Connellsville	107 mi. N 40° 00'	127 mi. W 79° 30'	10-7-53	2215	7722-			7861			Abandoned above Onondaga
Juniata	182	John Junk	Alage Creek Gas & Oil Co.	Tuscarora	East Waterford	189 mi. S 40° 25'	33 mi. W 77° 35'	4-2-53	621			805-845	2459			Show of gas at 2455
Lycoming	183	Grant Tombs	Slate Run Oil & Gas Co.	Brown	Slate Run	252 mi. S 41° 30'	31 mi. W 77° 30'	7-31-53	728	6033-6211			6390			Abandoned above Onondaga
"	184	Byron Schneider	The California Co.	Pine	Morris	278 mi. N 41° 30'	194 mi. W 77° 15'	12-20-53	1745	5488-	6554-	6599-6630	6642			Dry light sand
Luzerne	185	Melvin J. Harrison	John J. Galley et al.	Huntington	Stick-shimmy	221 mi. N 41° 10'	158 mi. E 76° 15'	4-9-53	1030	2225-	4258-	4741-	5555			Dry
Poller	186	Van Sickle	John Fox	Hector	Gaines	61 mi. S 41° 35'	203 mi. E 77° 45'	12-4-53	2150				5100			Probably abandoned above Onondaga
"	187	Slate of Panna Tract 16, No 5	New York State Nat. Gas Corp.	Stewardson	Tomorach	01 mi. S 41° 30'	03 mi. W 77° 45'	1-18-53	1588	5215-	6050	6072-6104 show of gas	6109	84	175 3 days	Abandoned
"	188	Slate of Panna Tract 16, No 6	New York State Nat. Gas Corp.	Stewardson	Olsona	28 mi. N 41° 30'	25 mi. E 77° 45'	2-4-53	1442	5076-5167	5910-5926	5926-5966 Gas	5967	239	175 17 hrs	
"	189	Poige	Ryan et al. Highland Oil & Gas Co.	Whorton	Whorton	74 mi. N 41° 30'	136 mi. W 78° 00'	3-9-53	1414	5094-	5668-	5684- Gas at 5692	5700	492 after shut	1180 38 hrs	Show of gas
"	190	Slate of Panna Tract 17, No 4	Meta Gas and Oil Co.	Whorton	First Fork	94 mi. S 41° 30'	189 mi. W 78° 00'	2-5-53	1866	5452-	6173-	6195- show of gas	6259			2 1/2 boilers salt water in 36 hrs
Somerset	191	MV Newman	The Peoples Nat. Gas Co.	Greenville	Frostburg	73 mi. S 39° 45'	206 mi. E 79° 00'	6-8-53	2657	4572-	5520-	5624-5723 salt water at 5730	6307			Drilled for gas storage
Tioga	192	Frank Achley	New York State Nat. Gas Corp.	Clymer	Gaines	284 mi. N 41° 50'	37 mi. W 77° 30'	3-20-53				Gas	4461			Drilled for gas storage
"	193	Frank Achley	New York State Nat. Gas Corp.	Clymer	Gaines	250 mi. N 41° 50'	80 mi. W 77° 30'	3-23-53	1927	3681-	4431-	Gas	4483			Drilled for gas storage
"	194	James C. Scott	New York State Nat. Gas Corp.	Clymer	Gaines	134 mi. N 41° 50'	105 mi. E 77° 35'	5-1-53	1969	3879-3930	4641-	4637- Gas at 4639-4660	4665			Drilled for gas storage
"	195	Andrew Staley	New York State Nat. Gas Corp.	Clymer	Gaines	240 mi. N 41° 50'	165 mi. W 77° 30'	1-15-53	1715	3521-	4290-	4297-4319 Gas	4323			Drilled for gas storage
"	196	Verel Vanderhoff	New York State Nat. Gas Corp.	Clymer	Gaines	175 mi. N 41° 50'	83 mi. E 77° 35'	1-9-53	2149	4158-	4936-4951	4951-4978 Gas	4982			Drilled for gas storage
"	197	Vera Vanderhoff	New York State Nat. Gas Corp.	Clymer	Gaines	108 mi. N 41° 50'	67 mi. E 77° 35'	10-23-53	1917	4017-4152	5445-5464	5464-5493	5500			Drilled for gas storage
"	198	Abbie Brewster	Bug Drilling	Elk	Lee Fire Tower	255 mi. N 41° 50'	131 mi. E 77° 35'	1-18-53	2390	6370-6455	7263-7288	7288-7310	7311			

COUNTY	Erie	Erie	Erie	Erie	Warren	Westmoreland	Westmoreland	Wyoming
MAP NUMBER	177	178	179	180	201	202	203	204
NAME OF WELL	Frank Stutzman	Edith Adams	Ivan Miller	W.W. Stutzman	South Penn Oil Co. Great Lot 74	A.J. Dotterway	J.R. Frolo	John Sheehan
OPERATOR	Beaver Dam Petroleum Corp.	Penna. Gas Co. 1426	Penna. Gas Co. 1424	Penna. Gas Co. 1429	Mid-East Oil Co.	The Peoples Nat. Gas Co.	The Peoples Nat. Gas Co.	John H. Rebold
TOWNSHIP	Concord	Wayne	Wayne	Wayne	Eldred	Unity	Unity	Mehoapany
QUADRANGLE	Corry	Corry	Corry	Corry	Corry	Donegal	Donegal	Meshoppen
LATITUDE	1.21 mi. N 41° 55'	2.75 mi. S. 42° 00'	2.46 mi. S. 42° 00'	2.42 mi. S. 42° 00'	1.70 mi. N 41° 45'	1.42 mi. S. 40° 15'	.95 mi. S. 40° 15'	1.70 mi. S. 41° 35'
LONGITUDE	.58 mi. E 79° 45'	1.04 mi. E 79° 45'	1.20 mi. E. 79° 45'	1.08 mi. E. 79° 45'	.10 mi. E. 78° 35'	1.52 mi. W. 79° 20'	1.30 mi. W. 79° 20'	.12 mi. E. 76° 05'
DATE COMPLETED	5-20-53	7-8-53	3-9-53	10-1-53	10-8-53	3-26-53	4-17-53	8-14-53
ELEVATION	1484	1735	1770	1733	1745	2094	2146	960
BEREA - CORRY								
MURRYSVILLE								
TULLY	2700 - 2777	2856 - 2921	2880 - 2960	2857 - 2936	3595 - 3680		7351 -	5865 -
ONONDAGA	2944 - 3190	3100 - 3277	3125 - 3338	3092 - 3300	3872 - 4009	8249 - Top chert, 8299	8130 -	7805 -
ORISKANY		3277 - 3294 5 Mcf gas at 3279		3300 - 3317 19 gal. oil 2 1/2 barrels SW/section	4009 - 4024		8288 - 1/4 Mcf gas at 8348	8446 -
SALINA		Shale and Salt 3833 - 3865	Salt and Shale 3787 - 3912	102 gals. salt water in 27 1/2 hrs of 3860				
LOCKPORT	Show of gas 2 barrels salt water per hr at 3887-3900	7 Mcf gas at 4069 90 gal. SW 4076-81	3 Mcf gas at 4119	Show gas 4194-4105 130 gal. SW 4083-94 8 barrels in 48 hrs.	Show gas at 4164 100 gal. SW 4160 8 barrels in 48 hrs.			
ALBION	4127 - RED MEDINA (GRIMSBY) 165 Mcf gas after first shof	Thorold 4298-4305 Grimsby 4305-4363 Gas at 4367 and 4375	Thorold 4308-4318 Grimsby 4318 - 43 Mcf gas at 4392	Grimsby 4298-4295 Show gas 4350-4361 4368	5138 -			
QUEENSTON	4296 - 4309	4459 - 4474	4482 - 4496	4446 - 4459	5296 - 5305			
	4309 -		4499 - 4512	325 Mcf gas at 4454	5309 -			
TOTAL DEPTH	4340	4481	4512	4459	5316	8901	8465	8524
DEEPEST FORMATION TESTED	Albion	Albion	Albion	Albion	Albion	Onondaga	Oriskany	Oriskany
RESULT	174 Mcf gas from Red Medina after 2nd shof R.P. 680 psi in 22 hrs.	207 Mcf gas from Red Medina R.P. 990 psi in 41 hrs.	672 Mcf gas from White Medina in 140 hrs.	2,217 Mcf gas from White Medina R.P. 807 psi in 30 hrs.	Dry	Dry	8 Mcf gas after shof Dry	Dry



